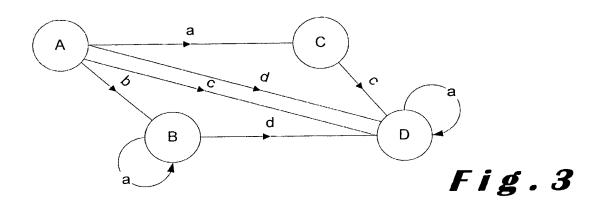


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Current State / Incoming Event	State A	State B	State C	State D
	New Sate: State C Action 1 Action 2 Timed Action 1	Action 7 Timed Action 2		Action 1
Event b	New State: State B Action 3 Timed Action 2 Timed Action 3			
Event c	New State: State D Action 4 Action 5 Action 6		New State: State D Action 4 Action 5	
Event d	New State: State D Action 5	New State: State D Action 3 Action 5		

Fig. 4

Element	Description
<bpse></bpse>	Global element for the business
	process state engine repository
<objecttypes></objecttypes>	Definition of object types
<pre><objecttype xid="string"></objecttype></pre>	Unique Ref ID of the object type
	(system generated)
<name>string</name>	Name of the object type
<pre><description>string</description></pre>	Description of the object type
<objecttype xid="string"></objecttype>	
<diagrams></diagrams>	Definition of state diagrams
<pre><diagram xid="string"></diagram></pre>	Unique Ref ID of the diagram (system
	generated)
<name>string</name>	Name of the diagram
<pre><description>string</description></pre>	Description of the diagram
<objecttyperef xid="string"></objecttyperef>	Ref of the object type on which the
	diagram applies
<diagram xid="string"></diagram>	
<states></states>	
<state xid="string"></state>	Unique Ref ID of the state (system
	generated)
<name>string</name>	Name of the state
<pre><description>string</description></pre>	
<diagramref xid="string"></diagramref>	Ref to the diagram to which the
	state belongs
<state xid="string"></state>	
(Parada)	
<events></events>	Unique Ref ID of the event (system
<event xid="string"></event>	generated)
<name>string</name>	Name of the event
<pre></pre>	
<pre></pre>	Object type on which event is
CobjectTypeRel x1d-Stlings	applicable
<event xid="string"></event>	

Fig.5a

Actions>	
<action xid="string"></action>	Unique Ref ID of the action
	(system generated) Name of the action
<name>string</name>	
<pre><description>string</description></pre>	Object types on which action is
<objecttyperef xid="string"></objecttyperef>	applicable (optional)
<action xid="string"></action>	
<timedactions></timedactions>	
<timedaction xid="string"></timedaction>	Unique Ref ID of the timed action (system generated)
<name>string</name>	Name of the timedaction
<pre><description>string</description></pre>	Description of the timed action
<pre><objecttyperef xid="string"></objecttyperef></pre>	Object types on which timed action is applicable (optional)
<timeout>string</timeout>	Time when action(s) will fire (dd hh:mm)
<actions></actions>	Action(s) that will fire when timeout expires
<action xid="string"></action>	Ref to the action to be fired
<pre><timedaction xid="string"></timedaction></pre>	
72.000.000	
<transitions></transitions>	
<transition xid="string"></transition>	
<triggeringevent xid="string"></triggeringevent>	Ref to the event that triggers the transition
<diagram xid="string"></diagram>	Ref to the state digram to which t transition belongs
<source xid="string"/>	Ref to the source state of the transition
<target xid="string"></target>	Ref to the target state of the transition
<actions></actions>	Ref to the actions to be taken whe transition occurs
<action xid="string"></action>	
<timedactions></timedactions>	Ref to timed actions to be schedul
<timedaction xid="string"></timedaction>	

Fig.5b

Element	Description
<eventmessage></eventmessage>	Global element for the event message
<header></header>	Event header information
<origin>string</origin>	Origin (system that generated the message on the bus)
<messagedatetime>string<td>&gt;When the message was sent (DD-MM-YYY HH:MM:SS)</td></messagedatetime>	>When the message was sent (DD-MM-YYY HH:MM:SS)
<eventtype>string</eventtype>	What type of event
<eventdatetime>string</eventdatetime>	When the orginal event was created (DD-MM-YYY HH:MM:SS)
<location>string</location>	Where the event was created
<user>string</user>	Who created the event
<reason>string</reason>	Why the event was created
<method>string</method>	How the event was created
<objecttype>string</objecttype>	Object type on which the event applies
<objectid>string</objectid>	Object ID on which the event applied
<object></object>	Specific Object data associated with the event - format specific to the object type
<objectdata1><objectdata1></objectdata1></objectdata1>	Object specific data
<objectdatan><objectdatan></objectdatan></objectdatan>	Object specific data

Fig.5c

Element	Description
<actionmessage></actionmessage>	Global element for the action
	message
1110000021	Action header information
	Origin (system that generated
	the message on the bus)
<pre><messagedatetime>string</messagedatetime></pre>	When the message was sent
	(DD-MM-YYY HH:MM:SS)
<actiontype>string</actiontype>	What type of action
<reason>string</reason>	Why the action was triggered
<pre><objecttype>string</objecttype></pre>	Object type on which the action
	applies
<objectid>string</objectid>	Object ID on which the action
	applies
	Specific Object data associated
	with the event - format specific
	to the object type
<objectdatal><objectdatal></objectdatal></objectdatal>	Object specific data
<objectdatan><objectdatan></objectdatan></objectdatan>	Object specific data

Fig.5d

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State Engine Editor				_  <u> </u>  ×
Enlities Diagr	ams Repository			
Object types	Entities>Object t			
Events		Object Type Editor		
Actions Times Actions	Name			
State Diagrams	Description	1		
<u>States</u>	New	<u>Update</u>	Delete	
	Name	Description		
	<u>Package</u>	Package Shipping Order		
	Order CSTask	Shipping Order Customer Service Task		S.
	THE THE WAS ASSESSED.			tini. 17. s

Fig.6

bject types	Entities>Events		
<u>vents</u> ctions		Event Editor	
mes Actions tate Diagrams tates	Name Description Object type		
	New (	Update	Delete A
	Name	Description	Object type
÷	Created CarrierIntransit CarrierPOD CPScanIn DeliveredUser	Package created Carrier in transit Carrier proof of delivery Scan in by CP Delivered to User	Package Package Package Package Package

Fig.7

Entities Diagra Object types	Entities>Actions			• •
<u>Events</u> Acti <u>ons</u>		Action Editor		
Times Actions State Diagrams States	Name Description Object type		<u> </u>	
	New New	, ∴Update : □	Delete	
	Name	Description	Object type	
	LogEvent CarrierCollect NotifyUser	Log event Notify Carrier to collect Send message to recipient	Package Package	

Fig.8

Object types	Entities>TimedActio	ins	1.8
Events Actions		Timed Action Editor	
Times Actions State Diagrams States	Name Description Object type Timer (dd hh:mm) Generic Actions		<b>X</b>
	Object Specific Actions		
	New	Update	Delete
	Name D	Description	Object type
	DeliveryLate D	Delivery package uncollected Delivery delayed Return not collected by carrier	Package Package Package

Fig.9

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Object types	Entities>StateD	iagrams	
<u>Events</u> Actions		State Diagram Edito	or
Times Actions State Diagrams States	Name Description Object type		
	New	Update	Delete
	Name	Description	Object type
	PkgDelivery PkgReturn PickProcess	Package Delivery flow Package return flow Package picking flow	Package Package Order

Fig. 10

State Editor  Name Description State Diagrams State Diagram  Name Description State Diagram  Name Description State Diagram  Package created  PkgDelivery	Entities Diagran	Entities>States		
Actions Times Actions State Diagrams States  Name Description State Diagram  Name Description State Diagram  Name Description State Diagram  Package created  PkgDelivery	Object types	Littles-States		
Times Actions State Diagrams States  Name Description State Diagram  New Update  Name Description State Diagram  Created Package created  Name Description PkgDelivery			State Editor	
State Diagrams States  Description State Diagram  New  Update  Delete  Name Description State Diagram  Created Package created  PkgDelivery		Name		
State Diagram    Delete:	State Diagrams			
New Update Delete  Name Description State Diagram  Created Package created PkgDelivery	<u>States</u>	I I		E.M.
Name     Description     State Diagram       Created     Package created     PkgDelivery				
Name Description State Diagram <u>Created</u> Package created PkgDelivery		New	Undate	Delete
<u>Created</u> Package created PkgDelivery		RESERVATION TRANSPORT		2) 10000
<u>Created</u> Package created PkgDelivery		Name	Description	State Diagram
<u> </u>				
		InTransit	Package created Package in transit	PkgDelivery
DeliveredCP Package delivered in CP PkgDelivery				
DeliveredUser Package delivered to user PkgDelivery				

Fig. 11

State Engine Editor			
Entities Diagrati	Repository		12
PkqDelivery	Diagrams>PkgDelivery>	Created	
PkgReturn PickProcess		Transition Editor	
Tiom roscos	Triggering Event Target State		
	Generic Actions		
Source State  None Created InTransit	Object Specific Actions		
DeliveredCP DeliveredUser	Generic Timed Actions		
	Object Specific Timed Actions		
	New .	Update	
	Triggering Event	Target State	
	Created CarrierIntransit CarrierPOD CPScanIn DeliveredUser	Created InTransit DeliveredCP DeliveredCP DeliveredUser	

Fig. 12

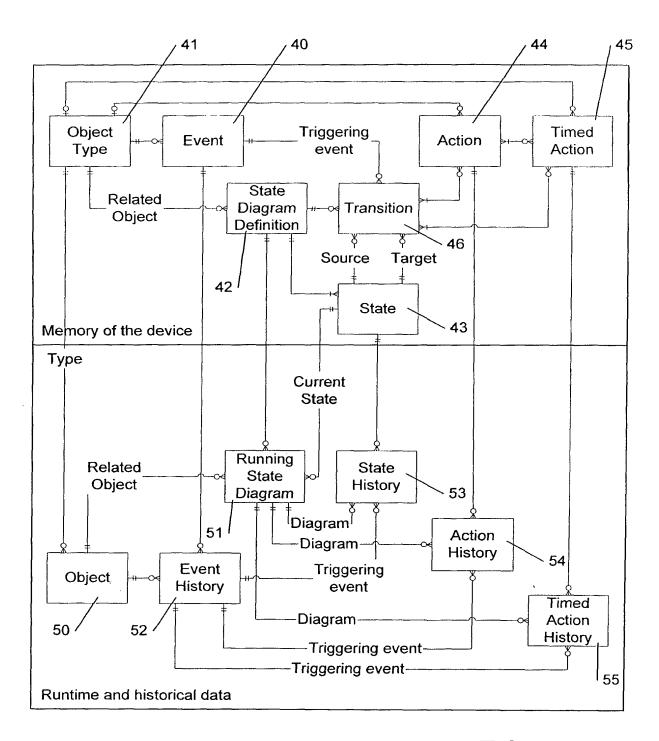


Fig. 13

